

Software Release Notice

System: SGS

Release: AGS SGS 4.5

Date: January 17, 2002

Modification Description:

This is a release for the Svalbard Ground Station and incorporates three patches for the Poker Flat Ground Station.

The following changes are planned for the Ground Station software. The following modifications apply to release ags sgs 4.4 and have been completed since the NASA 4.4 release:

1. Fixes the 1000 configuration file list problem and allows for name entries up to 13 characters and description entries up to 31 characters.
2. Changes the remote interface to match Wallops version 3.1.8 and beyond with additional debug.
3. Reduces the rate of status packet messages.
4. Sends upgrade acknowledge to the Master even if the Master is already upgraded.

Files Affected:

The files that were developed and/or utilized as part of this patch are listed in Attachment 1: 4.5 Files.

Hardware Requirements:

N/A

Validation Procedures:

1000 Configuration Files

Add configuration files at will and notice that over 100 files repeatedly display correctly in the list box on the Configuration Maintenance Menu. Choose a configuration file with a short name or description to modify. Notice that by highlighting the entire field area, the operator is allowed to modify the field for the full length of text allowed. Short names and descriptions cannot be edited to longer names and descriptions but they can be replaced with longer names and descriptions.

Reduced Status Packet Rate

Notice that the four demods produce status packets every 12.5 seconds rather than every 1.25 seconds. Notice that status packets from the 4 930 receivers and 2 934 Diversity Combiners are no longer active. Notice that the status packets from the two Aydin receivers are no longer active.

Upgrade Acknowledge

Notice that the SCC will send an upgrade acknowledge to the Master even if the Master is already upgraded. Kill the Master after upgrade and before downgrade. Restart the Master and notice that it can still upgrade and receive an acknowledge from the SCC.

Known Bugs or Limitations:

Some open DRs may not be resolved in this release due to equipment constraints.

Installation Procedure:

To install this patch, first backup the current executables and the etc directory. Copy the etc directory to etc.old. It is not anticipated that this patch would corrupt any files in the etc directory, but that slight possibility does exist. Create the etc.old directory snapshot so that we could recover if necessary. In the bin directory, copy Nasa to Nasa.old, authent to authent.old, rci to rci.old, status_l to status_l.old and configud to configud.old. Copy the file 4.5.tar.Z into this directory. Uncompress and untar 4.5.tar.Z. This will create a 4.5 directory with the new executables. Copy the executables Nasa, rci, authent, status_l and configud from the 4.5 directory to the bin directory as Nasa.new, rci.new, authent.new, status_l.new and configud.new. Make sure that they have executable permission.

Create a script called sw4.5, which will copy Nasa.new to Nasa, rci.new to rci, authent.new to authent, status_l.new to status_l and configud.new to configud.

Create a script called sw4.4, which will copy Nasa.old to Nasa, rci.old to rci, authent.old to authent, status_l.old to status_l and configud.old to configud.

Activation Procedure:

4.5 activation procedure:

(1) Select option "Exit" from the "Session" menu. This action will close the SCC graphical user interface (GUI) and stop all SCC processes. Processes are stopped after "Stopping rci" and "Removing Stale Message Queues" messages are displayed. Hit "enter" to display the SCC command prompt, "ags sgs-11m >".

(2) Type "sw4.5" to activate the release. Type "Start" to start the SCC processes. The SCC GUI main window will show "Version AGS SGS 4.5".

Restore Procedure:

Release removal restore procedure:

(1) Select option "Exit" from the "Session" menu. This action will close the SCC graphical user interface (GUI) and stops all SCC processes. Processes are stopped after "Stopping rci", and "Removing Stale Message Queues" messages are displayed. Hit "enter" to display the SCC command prompt, "ags sgs-11m >".

(2) Type "sw4.4" to remove the release. Type, "Start" to start the SCC processes. The SCC GUI main window will show "NASA Version AGS 4.4".

Documentation Affected:

N/A

Comments:

N/A

Approval:

The software modifications described in this release notice has been validated and accepted.

NASA SGS Project Manager

Date

SOFTWARE RELEASED:

The software modifications described in this release notice have been completed and released to ground station operations.

System Manager

Date

NASA Program Monitor

Date

Attachment 1
4.5 Files

The bin Directory:

Nasa
configud
authent
rci
status_l

The etc Directory:

The etc/hpib directory:

N/A

The etc/config directory:

N/A

The etc/defaults directory:

N/A